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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,233	11/03/2003	James Michael Quackenbush	019377-00100	3765
7590 08/14/2006			EXAMINER	
John Wilson Jones			RONESI, VICKEY M	
Attn: IP Docketing Clerk Locke, Liddell & Sapp LLP			ART UNIT	PAPER NUMBER
600 Travis, Suite 3400 Houston, TX 77002			1714	
			DATE MAILED: 08/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/700,233	QUACKENBUSH, JAMES MICHAEL				
omeen cumuly	Examiner	Art Unit				
	Vickey Ronesi	1714				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>05 June</u> 2006.						
2a)⊠ This action is FINAL . 2b)☐ This	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-12 and 15-36</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12 and 15-36</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

DETAILED ACTION

- 1. All outstanding objections and rejections, except for those maintained below, are withdrawn in light of applicant's amendment filed 6/5/2006.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.
- 3. The new grounds of rejection set forth below are necessitated by applicant's amendment filed 6/5/2006. In particular, the claims have been amended to include two or more specific carboxylic acid anhydrides. Thus, the following action is properly made final.

Claim Rejections - 35 USC § 112

4. Claims 4-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claims 4-6, the term "the at least one alicyclic carboxylic acid anhydride" lacks antecedent basis because claim 1 only recites "at least one of the other carboxylic acid anhydrides is an alicyclic acid anhydride," which does not explicitly say that there is at least one alicyclic carboxylic acid anhydride.

With respect to claims 7 and 8, the term "the at least one aromatic carboxylic acid anhydride" lacks antecedent basis because claim 1 only recites "at least one of the carboxylic acid anhydrides is an aromatic acid anhydride," which does not suggest that there is necessarily at least one aromatic carboxylic acid anhydride.

With respect to claim 9, it is rejected for being dependent on a rejected claim.

Claim Rejections - 35 USC § 103

5. Claims 18-24 and 27 are obvious over Egan (GB 2 110 693) in view of Nonken (US 3,812,314) and further in view of Hollstein et al (US 5,354,939).

Egan discloses an acid-resistant flooring composition comprising an epoxy resin such as Araldite which contains epoxy and a hardener (page 1, line 49), sand filler, and granite chips (page 1, lines 29-32). The exemplified amount of epoxy to hardener is 5:3 (page 1, lines 54-55), wherein the ratio of filler to epoxy resin is 7:1 thus providing for an amount of hardener of 4.7 to 18.8 wt %.

Egan is silent with respect to the addition of at least one carboxylic acid anhydride as the hardener.

Nonken teaches that Araldite resins contain either a dibasic acid anhydride or polyamine hardener wherein the dibasic acid anhydride hardener includes hexahydrophthalic anhydride (col. 5, lines 21-27).

Given that Egan teaches the use of Araldite resins and its variations (page 1, line 49) and further given that Nonken teaches that Araldite resins contain a dibasic acid anhydride such as hexahydrophthalic anhydride, it would have been obvious to one of ordinary skill in the art to utilize an acid anhydride as the Araldite hardener of Egan, there being no expected or surprising results by using the acid anhydride over polyamine.

While the combined teachings of Egan and Nonken provide for an acid anhydride such as hexahydrophthalic anhydride, it fails to teach other acid anhydride hardeners for epoxy resin.

Hollstein et al discloses epoxy resin compositions and teaches that typical hardeners include anhydrides of polycarboxylic acids such as phthalic anhydride and others (col. 4, lines 14-26). It is the examiner's position that it is obvious to use more than one acid anhydride. It is

well settled that it is *prima facie* obvious to combine two ingredients, each of which is targeted by the prior art to be useful for the same purpose. *In re Lindner* 457 F, 2d 506,509, 173 USPQ 356, 359 (CCPA 1972). Moreover, the use of flake phthalic anhydrides are commonly used in the art and are obvious since they have more surface area.

Given that Egan and Nonken teach acid anhydride epoxy hardeners and further given the teachings by Hollstein et al regarding known acid anhydride epoxy hardeners, it would have been obvious to one of ordinary skill in the art to utilize at least of the known acid anhydride epoxy hardeners as taught by Hollstein in the flooring composition taught by Egan.

6. Claims 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Egan (GB 2 110 693) in view of Nonken (US 3,812,314) and Hollstein et al (US 5,354,939) and further in view of Betts (US 3,924,880).

The discussion with respect to Egan, Nonken, and Hollstein et al in paragraph 5 above is incorporated here by reference.

Egan fails to disclose the use of its acid-resistant composition in a countertop or a heat-activated catalyst.

Betts teaches that laboratory counter tops are made of highly acid resistant materials such as epoxy resin (col. 1, lines 6-14). With respect to the heat-activated catalyst, it is considered that it would have been well within the capabilities of one of ordinary skill in the art to use heat and a heat-activated to prevent premature curing or to accelerate curing.

Given that acid-resistant compositions like those taught by Egan are used in laboratory countertops as taught by Betts, it would have been obvious to one of ordinary skill in the art to utilize Egan's composition in a countertop.

7. Claims 1-12, 15-17 and 25-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Egan (GB 2 110 693) in view of Nonken (US 3,812,314) and Hollstein et al (US 5,354,939) and further in view of Wypych (*Handbook of Fillers*).

The discussion with respect to Egan, Nonken, Hollstein in paragraph 5 above is incorporated here by reference.

Egan discloses that granite chips have a particle size of 3-20 mm (page 1, lines 29-32), wherein the volume ratio of granite to sand ranges from 1.0:1.2 to 1.0:2.7 (page 1, lines 36-38). Note that granite and sand have approximately the same density (about 2.6 g/m³) and therefore, even though the ratio of granite to sand is less than presently claimed, the ratio reads on the presently claimed ratio if separated out when a portion of the sand is in the larger particle portion.

Egan is silent with respect to the size or size distribution of the size particles and to the use of its composition in a countertop.

Wypych teaches that sand conventionally has a particle size of 2-90 microns (page 144).

Given that Egan teaches the use of sand and further given that sand conventionally has a particle size of 2-90 microns, it would have been obvious to one of ordinary skill in the art to utilize conventional particle sizes of sand, including those in the presently claimed.

8. Claims 32, 33, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Egan (GB 2 110 693) in view of Nonken (US 3,812,314), Hollstein et al (US 5,354,939), and Wypych (*Handbook of Fillers*) and further in view of Betts (US 3,924,880).

The discussion with respect to Egan, Nonken, Hollstein et al, and Wypych in paragraph 7 above is incorporated here by reference.

Egan fails to disclose the use of its acid-resistant composition in a countertop or a heat-activated catalyst.

Betts teaches that laboratory counter tops are made of highly acid resistant materials such as epoxy resin (col. 1, lines 6-14). With respect to the heat-activated catalyst, it is considered that it would have been well within the capabilities of one of ordinary skill in the art to utilize heat and a heat-activated catalyst to prevent premature curing or to accelerate curing.

Given that acid-resistant compositions like those taught by Egan are used in laboratory countertops as taught by Betts, it would have been obvious to one of ordinary skill in the art to utilize Egan's composition in a countertop.

Response to Arguments

9. Applicant's arguments filed 6/5/2006 have been fully considered but they are not persuasive. Specifically, applicant argues (A) that none of the cited art provides for a mixture of at least two acid anhydride hardeners and (B) that Betts makes no mention or suggestion of using a countertop material composition as described by applicants.

With respect to argument (A), as cited above and upon which the examiner has relied, case law holds that it is *prima facie* obvious to combine two ingredients, each of which is targeted by the prior art to be useful for the same purpose. *In re Lindner* 457 F,2d 506,509, 173 USPQ 356, 359 (CCPA 1972). Hence, it would have been obvious to one of ordinary skill in the art to utilize more than acid anhydride as a hardener, absent a showing of unexpected or surprising results had by using such a mixture.

With respect to argument (B), while Betts does not disclose <u>all</u> the features of the present claimed invention, it is used as teaching reference, and therefore, it is not necessary for this

secondary reference to contain all the features of the presently claimed invention, *In re Nievelt*, 482 F.2d 965, 179 USPQ 224, 226 (CCPA 1973), *In re Keller* 624 F.2d 413, 208 USPQ 871, 881 (CCPA 1981). Rather this reference teaches that materials for use in floor applications is also advantageously used in countertops and in combination with the primary reference, discloses the presently claimed invention. If the secondary reference contained all the features of the present claimed invention, it would be identical to the present claimed invention, and there would be no need for secondary references.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vickey Ronesi whose telephone number is (571) 272-2701. The

examiner can normally be reached on Monday - Friday, 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/9/2006

Vickey Ronesi

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